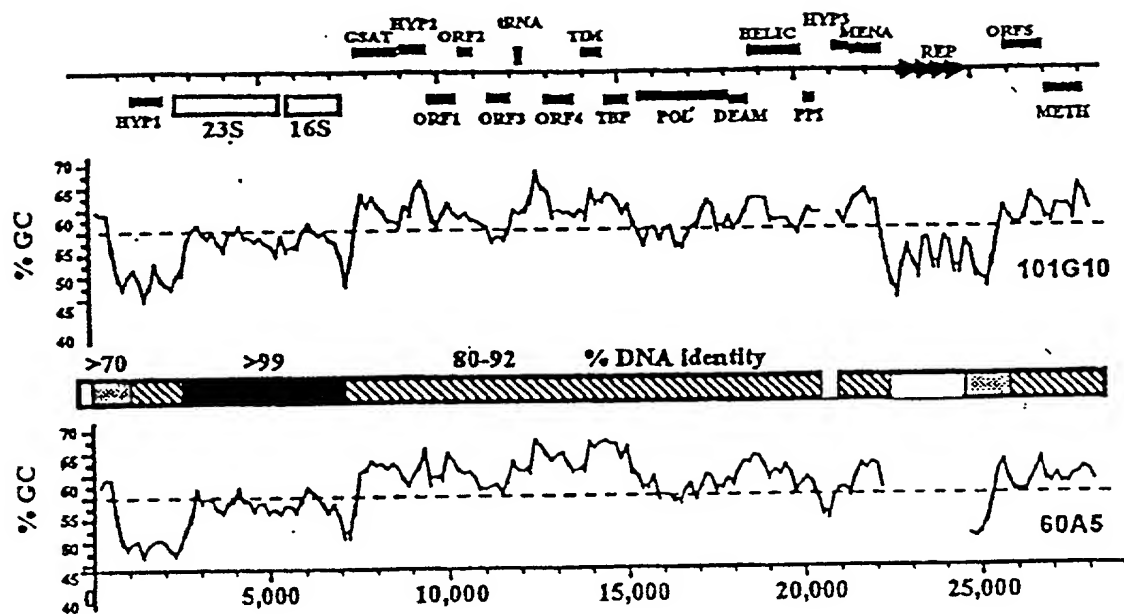


FIGURE 1



10027806-13101

Figure 2

89. 90.	Gene	Strain	TATA Box	Coding Start	TATA to Start (bp)
81	Hypoth 03	A	AAGCTAGACT TTTAAT TGGG ATCCGGCGGG GCGGCGCATG	~~~~~	25
82		B	AAGCTAAACT TTTAAT TGGG ATCCGGCGAG CCGGCGCGTG	~~~~~	
83	Hypoth 02	A	GGAAACTTTG ATTATA CGGG CGTGCTGCC CCGGGCCCAT	G~~~~~	26
84		B	GGAAACTTTG ATTATA CGGG CGTACATTCC CCGGGCCCAT	G~~~~~	
85	ORF 02	A	AAGGCAAGGT AATAAT AGCC TGCCGTCTGT AACGGCCGTA	TG~~~~~	27
86		B	ACGGCAAGGT AATAAT AGCC TGCCGTCCGT ACCTGCCGTA	TG~~~~~	
87	ORF 03	A	CATGGAAC TA GATATT AACC GGTTCGCGG ATCCCATGCA	TG~~~~~	27
88		B	CATGGAAC TA GATAAT AACC GGTCCCGCGG GTACAATGCA	TG~~~~~	
89	PPI	A	ATACCGAGAA GTTATA GCAG GGTATGGAAT GTGCGCGCGC	ATG~~~~~	28
90		B	AGCACGACAA GTTATA GCAG GGTACAAAGG AGCAGCGCAC	ATG~~~~~	
91	GSAT	A	ATCCGCCCTG ATTAAA TTAT GGGGGGAGCG GCCTGCTGCC	GTG~~~~~	28
92		B	ATCCGGCCTC ATTAAA TTAC GGGGGGTACA ACCTGCTGCC	GTG~~~~~	
93	ORF 05	A	CCTTCATACA CATAAA TCCC GCTTGATGT GCGGCTGCGC	ATG~~~~~	28
94		B	ACTTCATACA CATAAA TCCC GCCTGAACGG TCGTCCGCGC	ATG~~~~~	
95	deaminase	A	.GGCATATAC CATAAT ATGC CGGGCGGTGG CACCATGGCC	GTTG~~~~~	29
96		B	CCGCATATAC CATAAT ATGC CGGGCGGGGG CAGGCTGCCC	.GTG~~~~~	
97	RNA helic	A	TGTACGAAAC CATAAA ACAA CAGGCCGCGT CAGGGCCGCG	CGTG~~~~~	29
98		B	GGGTAGAAAC CATAAA ACAA CAGGCCGCGG CAGGGCG.CG	CGTG~~~~~	
99	ORF 06	A	.ACACGCAG TATAAA CGGG GGCCCGGGCG GCGCGTATCA	CATG~~~~~	29
100		B	ATACACGTGG TATAAA CAGA GG.CCGGACG GCGCGGACCA	CATG~~~~~	
101	trNA-tyr	A	GCGATAGTTA TTTAAA ACTA GGATGCCGAT CACGGATCGT	CCCA~~~~~	29
102		B	GCGATAGTTA TTTAAA ACTA GGATGCCGGG CACCCGTCGT	CCCA~~~~~	
103	TBP	A	CCGGGCCCCG GTTAAA ATAG CG.CACGGGC GGATCCTGAC	CAATG~~~~~	30
104		B	CCGGGCCCCG GTTAAA ATAG AGTGCGGCCG GGCACCGGAT	CAATG~~~~~	
105	TIM	A	GCGTCGATAG AATAAA TACG CGCAGGGGGC CCCGTGGCGC	GATCGCCCCG	36
106		B	GCGTCGATAG AATAAA TACG CGC.GGGGCC GCGGTGC...	GATCGCCCCG	
107	Hypoth 01	A	ATTTCAACTA CATAAA TGCC TAGTTACGCA GAAATAGCAA	ACGACGTACT	45
108		B	ACTTCAACTA CATAAA TGCC TAGCTACGCA GAAATATCAA	ACAAAGTACT	
109	ORF 01	A	ACGGCAGGCT ATTATT ACCT TGCCCTTGCCT TGTA //..G	CGGGGTGCGG	52
110		B	ACGGCAGGCT ATTATT ACCT TGCCGTGTG. TACA //..G	AGGGGGCCTG	
111	Methylase	A	CTACAACGAT TTTAAG TCGG CGCCGGGGCA GCCG.//..G	ATGTGGGGCA	104
112		B	CTACAAAGAT TTTAAG ACGG CGCGGGTGCC GCCG.//..T	GGCACGGGGG	
113	16S RNA	A	TCGGCGATGG TTTATA TGCC CATGGACGGG CCGATCCGAT	CGTACGTGAC	220
114		B	CCGGCGATGG TTTATA TGCC CATGGACAAG GCGATCCGAT	CGTACGTGAC	

Archaeal promoter consensus YTTAWA

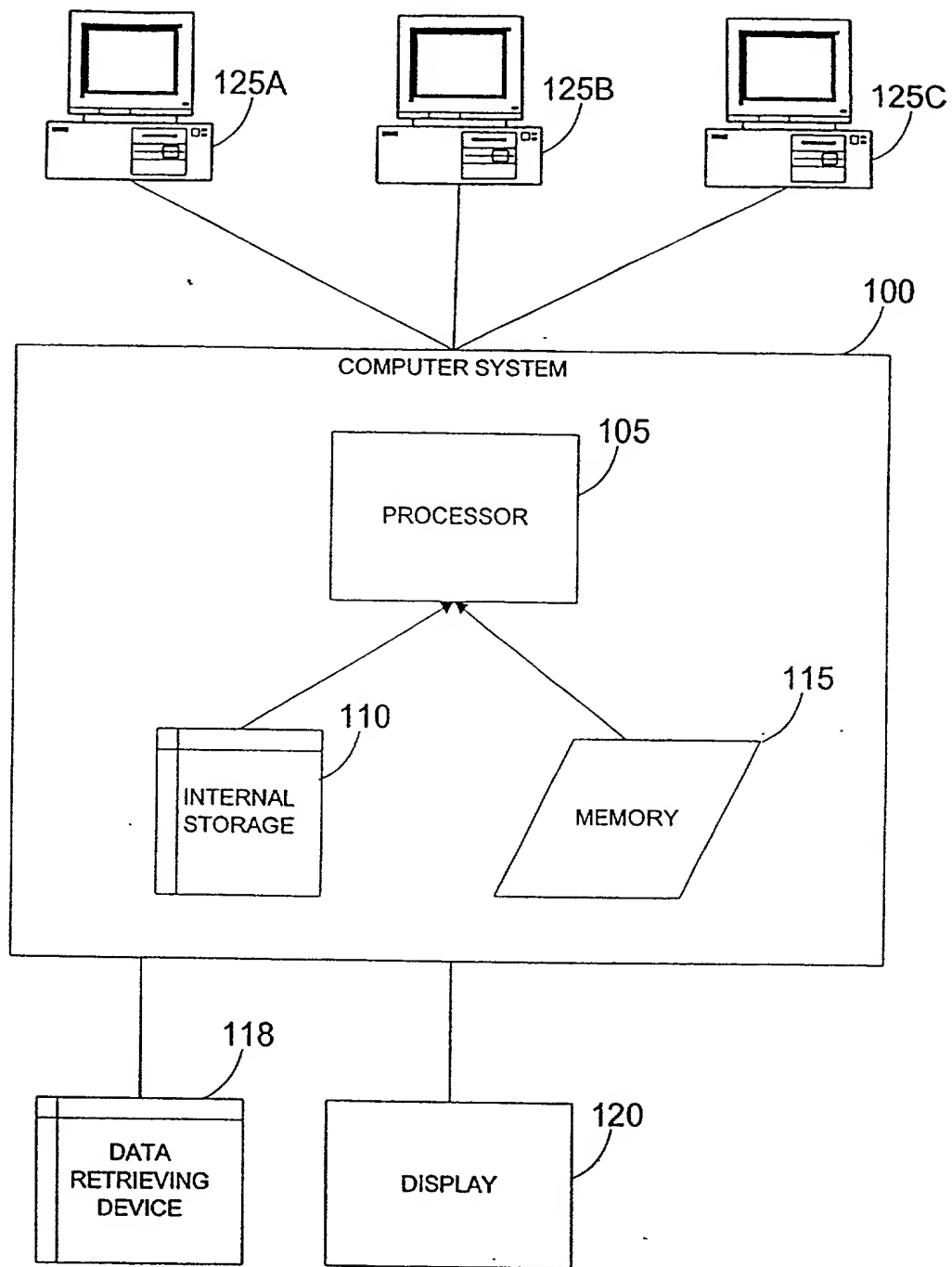


FIGURE 3

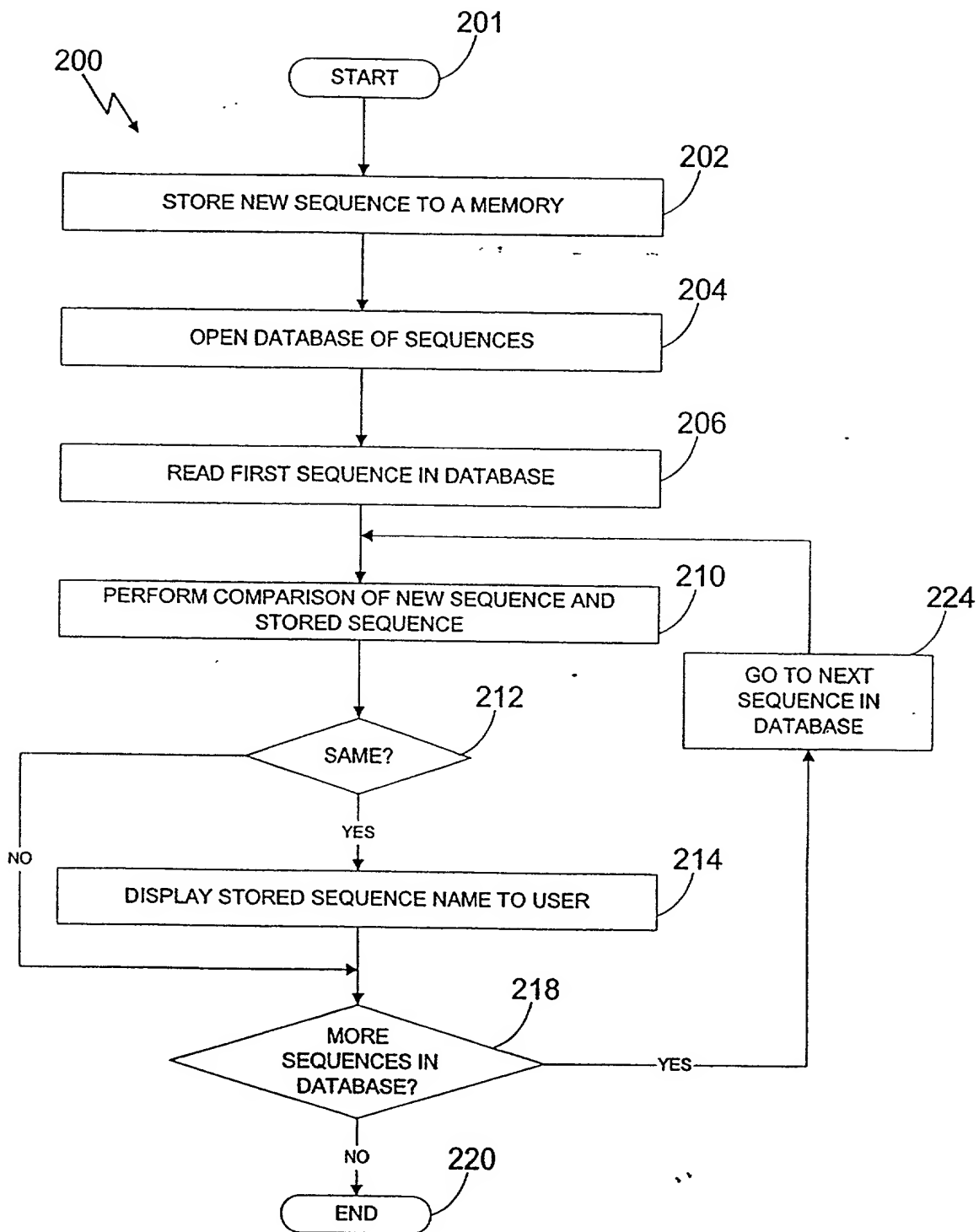


FIGURE 4

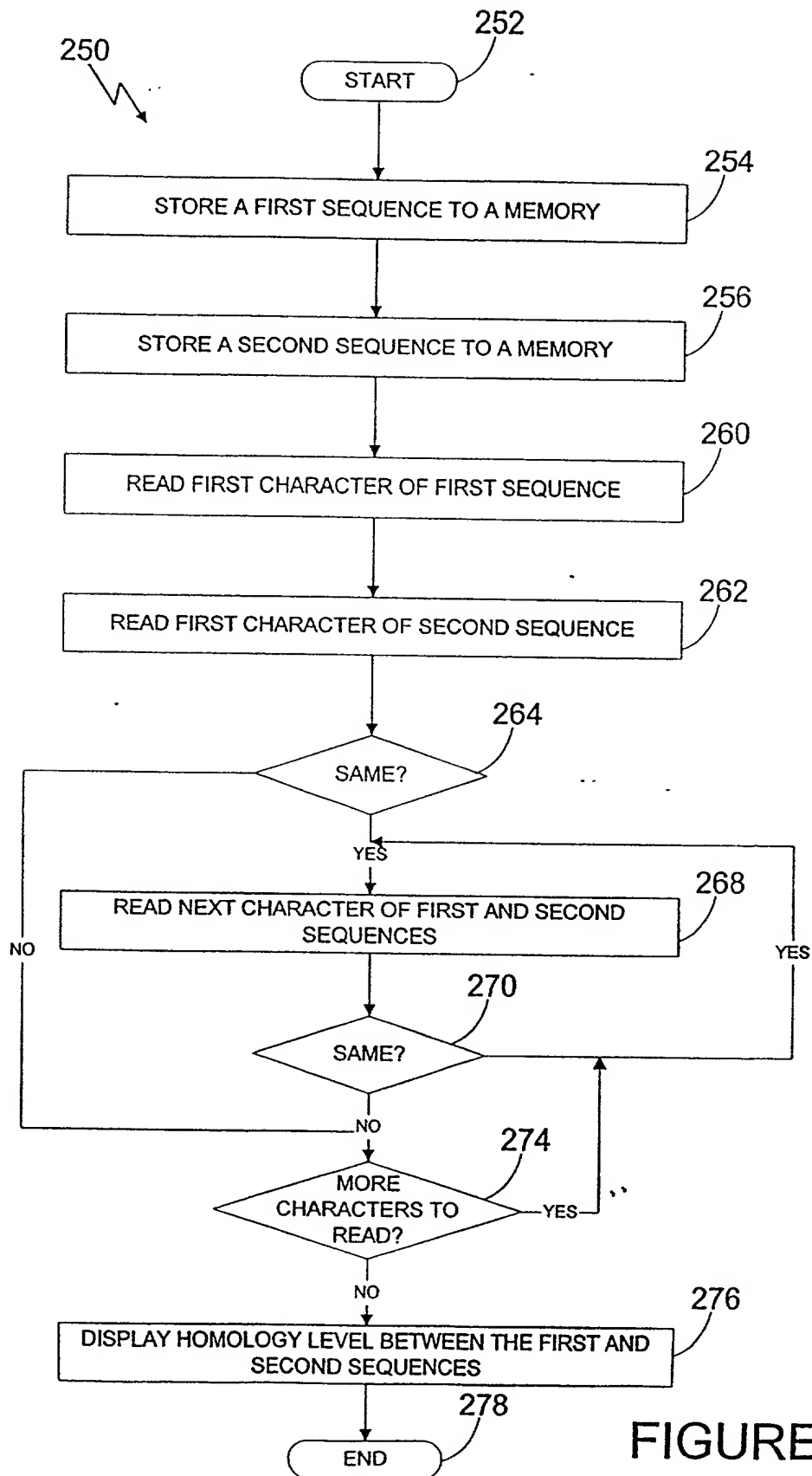


FIGURE 5

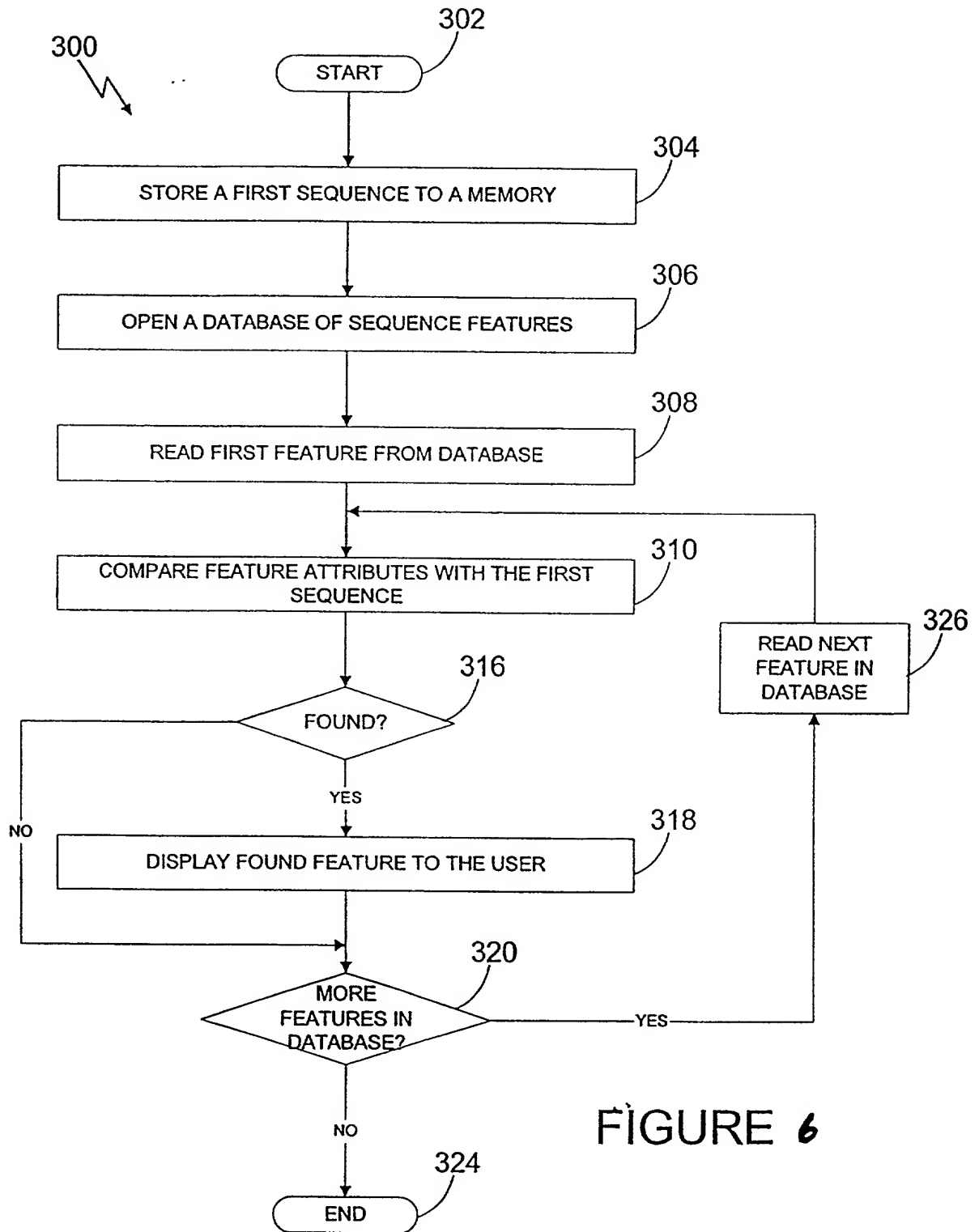


FIGURE 6